

CT30A3203 Web Applications

The key information on this course has been summarized here from LUT SISU, <https://sis-lut.funidata.fi/student/courseunit/lut-CT30A3203-2019-2020/brochure> .

Teacher in Charge: Assistant Professor Antti Knutas

Year: BSc (Tech.) 3

Course Schedule: Fall periods 1-2.

Assessment scale and assessment methods: 0-5, Project 60%, Weekly assignments 40%

Aims: At the end of the course the student will be able to:

1. Create web-based software products
2. Understand the evolution of web software and how it led to current online environment
3. Design and implement complex software systems using web-based software and APIs
4. Understand and solve issues related to web environment, such as caching and security
5. Solve real world problems and design online web systems using requirements based on these problems

Contents:

WWW –application architectures and standards. Programming languages and APIs for creating interactive server and client software (e.g. JavaScript, NodeJS, AJAX). Efficient management of web-based software and publication. The course is programming intensive.

Teaching Methods:

Online lectures and exercises 62 h, independent reading 8 h, projects 86 h. Total 156 h.

Prerequisites:

To participate this course you should have completed courses with the following contents: Introduction to programming (6 ects), Basics of database systems (3 ects), Database Systems Management (3 ects), and Object-oriented programming (6 ects).

Teaching Language:

English

Study materials:

Crockford, D. (2008). JavaScript: The good parts. Sebastopol (CA): O'Reilly : Yahoo! Press.

Other material presented at lectures.